

WEB APPLICATION DEVELOPMENT USING NODEJS (Tutorial 3)

Express JS

Install express, body-parser, nodemon

```
npm i express body-parser nodemon
```

package.json

```
{  
  "name": "ex1",  
  "version": "1.0.0",  
  "description": "",  
  "main": "index.js",  
  "scripts": {  
    "start": "nodemon index.js",  
    "test": "echo \"Error: no test specified\" && exit 1"  
  },  
  ...  
}
```

```
npm run start
```

URL Routing

```
const express = require('express')  
  
const app = express()  
  
app.get('/', (req, res) => {  
  res.end('home page');  
})
```

```
app.get('/login', (req, res) => {
  res.end('login page');
})

app.post('/login', (req, res) => {
  res.end('check login');
})

app.listen(8080, () => {
  console.log("Server is runing at http://localhost:8080");
})
```

Body-parser

```
const express = require('express')
const bodyParser = require('body-parser')

const app = express()

app.use(bodyParser.urlencoded({extended: false}))

app.post('/login', (req, res) => {
  let { email, password } = req.body
  console.log(email, password);
})

app.listen(8080, () => {
  console.log("Server is runing at http://localhost:8080");
})
```

View Engine

`npm i ejs`

Render ejs page

```
const express = require('express')
```

```
const app = express()

app.set('view engine', 'ejs');

app.get('/login', (req, res) => {
  res.render('login');    //views/login.ejs
})
```

Render ejs page with data

```
index.js
app.get('/products', (req, res) => {
  let products = [
    { id: 1, name: "iPhone 12 Pro", price: 30000000 },
    { id: 2, name: "iPhone 11", price: 17000000 },
    { id: 3, name: "iPhone Xr", price: 11000000 },
  ]
  res.render('products', { products });
})

views/products.ejs
<% products.forEach(function(product){ %>
  <tr>
    <td><%= product.id %></td>
    <td><%= product.name %></td>
    <td><%= product.price %></td>
  </tr>
<% }); %>
```

Working with Environment Variables in Node.js

```
npm install dotenv
```

Define environment variables in .env

```
PORT = 8081
```

How to use environment variables

```
require('dotenv').config();
const express = require('express')

const app = express()
const PORT = process.env.PORT || 8080;

app.listen(PORT, () => {
  console.log(`http://localhost:${PORT}`);
})
```